

WHAT IS CLAIMED IS:

1. A method for displaying information of data, to be deleted, in a digital video recorder, comprising:

reading management information of data to be deleted in accordance with a data overwriting operation during a recording operation performed by the digital video recorder; and

displaying the read management information.

2. The method of claim 1, wherein the read management information is displayed in the form of an on-screen display (OSD) image.

3. The method of claim 2, wherein the OSD image includes a recording date and time for a file of the data to be deleted in accordance with the data overwriting operation, and a mark identifying a position of the data file to be deleted.

4. The method of claim 3, wherein the OSD image includes a mark identifying a position of video image data being currently recorded in the recording operation.

5. The method of claim 1, wherein the recording operation comprises:
processing a video image picked up by at least one monitoring camera;
detecting a variation in the video image to determine whether a particular event has occurred; and

recording data of the video image on a main storage medium of the digital video recorder when the variation is detected.

6. The method of claim 5, wherein the data overwriting operation is executed in a sequential manner, starting from a position at which the oldest one of the data recorded on the main storage medium is recorded, and wherein the data overwriting operation is executed when there is substantially no spare space on the main storage medium for additional recording data.

7. The method of claim 1, wherein the management information includes recording date information or recording time information of a file of the data to be deleted.

8. The method of claim 7, wherein the management information is information of the data file recorded on the main storage medium at a position spaced apart by a predetermined distance from a current recording position of the main storage medium.

9. The method of claim 8, wherein the predetermined distance corresponds to a distance between the current recording position and the management information read position is determined by at least one of a control signal, a predetermined distance and a selection made by a user.

10. The method of claim 7, wherein the management information is information of the data file recorded on the main storage medium separated by a predetermined amount of data from a current recording position of the main storage medium.

11. The method of claim 1, comprising backing up a file of the data, to be deleted, on a backup recording medium.

12. The method of claim 11, wherein the backup recording medium is external to the digital video recorder.

13. The method of claim 11, wherein the data backup is executed for a subset of the data files to be deleted.

14. The method of claim 11, wherein an OSD image includes a backup option button for selecting a backup operation for the data file to be deleted.

15. A digital video recorder, comprising:
means for reading management information of data to be deleted in accordance with a data overwriting operation during a recording operation performed by the digital video recorder; and

means for displaying the read management information.

16. The digital video recorder of claim 15, wherein the management information includes recording date information or recording time information of a file of the data to be deleted, wherein the management information is information of the data file recorded on the main storage medium at a position spaced apart from a current recording position of the main storage medium by a predetermined distance or separated from the current recording position of the main storage medium by a predetermined amount of data.

17. The digital video recorder of claim 16, comprising:
means for storing the file of the data to be deleted, on a backup recording medium.

18. The digital video recorder of claim 17, wherein the means for displaying comprises an on-screen display (OSD), wherein an OSD image includes a recording date and time for the file of the data to be deleted in accordance with the data overwriting operation, and a mark identifying the position of the data file to be deleted, wherein the OSD image includes a mark identifying the position of video image data being currently recorded in the recording operation, and wherein the OSD image includes a backup option button for selecting a backup operation for the data file to be deleted.

19. A method of operating a digital video recorder, comprising:
recording current data from at least one of a plurality of sensors;
storing the current recorded data to a first location of a storage device of the digital video recorder;
reading management data of a file to be deleted from the storage device responsive to a data overwrite operation;
displaying the read data management information to a user; and
selectively storing the file to be deleted to an additional storage device in accordance with an operation by the user responsive to the displayed read management data.

20. The method of claim 19, wherein the additional storage device is external to the digital video recorder, and wherein the data file to be deleted is recorded on the storage device separated from the first recording position of the main storage medium by a predetermined amount of data.